

PATENT
Serial No. 10/511,804
Amendment in Reply to Office Action mailed on May 18, 2006

IN THE SPECIFICATION

Please amend the specification as follows:

Add the following paragraph on page 2, between lines 14-15 as follows:

The invention will be explained more fully below in connection with a preferred embodiment and with reference to the drawing, in which:

Figure 1 shows a cross section of a portion of a lamp according to one embodiment of the present invention.

Replace the paragraph on page 2, between lines 15-22 of the specification with the following:

Figure 1 shows a lamp 100 having a luminescent screen 110 including luminescent material 120 embedded in an inorganic material 130. It was also found that even thicker crackfree luminescent screens could be obtained in case the inorganic material further comprises particles of an inorganic oxide oxide preferably aluminium oxide or silicon oxide. The particles function

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as a filler material. In order to realize a good filling of the pores between the luminescent particles it is essential that the average diameter of the metal oxide particles is much smaller than the average diameter of the luminescent particles. In practice it was found that when the average diameter of the luminescent particles is several μm , the average diameter of the metal oxide particles is preferably several nm.

Replace the paragraph on page 2, between lines 23-28 of the specification with the following:

A The luminescent screen 110 according to the invention is very suitable for use in a discharge lamp, more in particular a fluorescent lamp, for reasons pointed out hereabove. Such a discharge lamp usually comprises a lamp vessel 140 that is transparanttransparent for visible light and the luminescent screen 110 is preferably deposited on part of an inner wall 150 of the lamp vessel. A luminescent screen according to the invention can also be deposited on part of an outer wall of the lamp vessel.

Replace the paragraph on page 2, between lines 29-34 of the

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specification with the following:

It has been found that although the surface area of a luminescent screen according to the invention is relatively small a further decrease in mercury consumption can be realized by covering the luminescent screen with a top layer 160. This top layer should be formed out of a material that has a comparatively small interaction with mercury. Good results have been obtained for top layers comprising a compound that is chosen from the group formed by yttrium oxide, yttrium-strontium borate and aluminium oxide.